

## DAFTAR PUSTAKA

1. Ranković B. *Lichen secondary metabolites: Bioactive properties and pharmaceutical potential*. New York : Springer; 2015.
2. Manojlovic NT, Vasiljevi P, Juskovi M, Najman S, Jankovi S, Milenkovi-Andjelkovi A. *HPLC analysis and cytotoxic potential of extracts from the lichen, Thamnia vermicularis var. subuliformis*. J Med Plants Res. 2010;4(9):817–23.
3. Huneck S. *The significance of lichens and their metabolites*. Nat. Wiss. 1999. p. 86(12) 559-570.
4. Ingolfisdottir K, Bloomfield SF, Hylands PJ. *In vitro evaluation of the antimicrobial activity of lichen metabolites as potential preservatives*. Antimicrob Agents Chemother. 1985;28:289–292.
5. Arifa, Nurwahidatul D. *Laporan Akhir Penelitian Program Kreativitas mahasiswa : Formulasi dan Evaluasi Sediaan Gel dari isolate Murni dan Ekstrak Stereocaulon graminosum yang Memiliki Aktivitas Antibakteri terhadap Methicillin Resistant Staphylococcus aureus (MRSA) pada Luka*. 2016.
6. Zhao J, Zhou L, Shan T, Lingyun Z, Zhao J, Zhou L, et al. *Endophytic fungi for producing bioactive compounds originally from their host plants*. In: *Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology*. 2010.
7. World Health Organization. 2012. *WHO Global Strategy for Containment of Antimicrobial Resistance*. World Health Organization;
8. CDC. *Resistensi Antibiotik*. Centers for Disease Control and Prevention; 2018.
9. Zhang Q, Luan R, Li H, Liu Y, Liu P, Wang L, et al. *Anti-inflammatory action of ambuic acid, a natural product isolated from the solid culture of pestalotiopsis neglecta, through blocking erk/jnk mitogen-activated protein kinase signaling pathway*. Exp Ther Med. 2018;16(2):1538–46.
10. Hale ME. *Growth in The Lichen*. New York and London: Academic press; 1973.
11. Septiana E. *Potensi Lichen Sebagai Sumber Bahan Obat: Suatu Kajian Pustaka*. Jurnal Biologi. 2011;1410 5292: 1.

12. Lamb M. *A Conspectus of the Lichen Genus Stereocaulon ( Schreb .) Hoffm* .Journ. Hattori Bot Lab. 1977;43:191–335.
13. Mycobank.org. *Stereocaulon graminosum*. Diakses 23 Juni 2019 [Internet]. Available from: <http://www.mycobank.org>
14. Mycobank.org. *Pestalotiopsis neglecta*. Diakses 23 Juni 2019 [Internet]. Available from: <http://www.mycobank.org>
15. Strobel G, Yang X, Sears J, Kramer R, Sidhu RS, Hess WM. *Taxol from Pestalotiopsis microspora, an endophytic fungus of Taxus wallachiana*. Microbiology. 1996;142:435–40.
16. Kumaran RS, Kim HJ, Hur BK. *Taxol promising fungal endophyte, Pestalotiopsis species isolated from Taxus cuspidata*. J Biosci Bioeng. 2010;110:541–6.
17. Tan RX, Zou WX. *Endophytes: A rich source of functional metabolites*. Natural Product Reports. 2001. p. 18(4) 448-459.
18. Ding G, Liu S, Guo L, Zhou Y, Che Y. *Antifungal metabolites from the plant endophytic fungus Pestalotiopsis foedan*. J Nat Prod. 2008;71(4):615–8.
19. Wei MY, Li D, Shao CL, Deng DS, Wang CY. *(±)-pestalachloride D, an antibacterial racemate of chlorinated benzophenone derivative from a soft coral-derived fungus Pestalotiopsis sp*. Mar Drugs. 2013;11(4):1050–60.
20. Xu D, Zhang BY, Yang XL. *Antifungal Monoterpene Derivatives from the Plant Endophytic Fungus Pestalotiopsis foedan*. Chem Biodivers. 2016;13(10):1422–5.
21. Jia YL, Wei MY, Chen HY, Guan FF, Wang CY, Shao CL. *(+)- and (-)- Pestaloxazine A, a Pair of Antiviral Enantiomeric Alkaloid Dimers with a Symmetric Spiro[oxazinane-piperazinedione] Skeleton from Pestalotiopsis sp*. Org Lett. 2015;17(17):4216–9.
22. Chen L, Zhang QY, Jia M, Ming QL, Yue W, Rahman K, et al. *Endophytic fungi with antitumor activities: Their occurrence and anticancer compounds*. Critical Reviews in Microbiology. 2016. p. 42(3) : 454-473.
23. Kiho T, Itahashi S, Sakushima M, Matsunaga T, Usui S, Ukai S, Mori H SH and IY. *Polysaccharides in Fungi. XXXVIII. Anti-diabetic Activity and Structural Feature of a Galactomannan Elaborated by Pestalotiopsis Species*. Biol Pharm Bull. 2011;20(2):118–21.

24. Kumar DSS, Lau CS, Wan JMF, Yang D, Hyde KD. *Immunomodulatory compounds from Pestalotiopsis leucothès, an endophytic fungus from Tripterygium wilfordii*. Life Sci. 2005;78(2):147–56.
25. Tejesvi MV, Kini KR, Prakash HS SV and SH. *Anticestodal Activity of Endophytic Pestalotiopsis sp. on Protoscoleces of Hydatid Cyst Echinococcus granulosus*. Biomed Res Int. 2013;30(10):851–5.
26. Tejesvi M V., Kini KR, Prakash HS, Subbiah V, Shetty HS. *Antioxidant, antihypertensive, and antibacterial properties of endophytic Pestalotiopsis species from medicinal plants*. Can J Microbiol. 2008;54(9):769–80.
27. Xia X, Kim S, Liu C, Shim SH. *Secondary metabolites produced by an endophytic fungus pestalotiopsis sydowiana and their 20S proteasome inhibitory activities*. Molecules. 2016;21(7):944.
28. Klaiklay S, Rukachaisirikul V, Tadpetch K, Sukpondma Y, Phongpaichit S, Buatong J, et al. *Chlorinated chromone and diphenyl ether derivatives from the mangrove-derived fungus Pestalotiopsis sp.* PSU-MA69. Tetrahedron. 2012;68(10):2299–305.
29. Sudhakar T, Dash SK, Rao RR, Srinivaan R, Zacharia S, Atmanand NA, Subramaniam BR NS. *Do endophytic fungi possess pathway genes for plant secondary metabolites*. Sci Corresp. 2013;104(2):214–5.
30. SD Sarker, Latif Z GA. *Natural products isolation*. In: Sarker SD, Latif Z, Gray AI, editors. Nat Prod Isol 2nd ed Totowa (New Jersey) Hum Press. 2006;20(18):6–10.
31. Agoes G. *Teknologi Bahan Alam*. Bandung: ITB Press; 2007.
32. Voight R. *Buku Pengantar Teknologi Farmasi*. Yogyakarta, Univ Gadjah Mada Press. 1994;5:572–4.
33. Kesehatan RD. *Parameter Standar Umum Ekstrak tanaman Obat*. Direktorat Jenderal Pengawas Obat dan Makanan Direktorat Pengawas Obat Tradisional, Jakarta. 2000;
34. R. J, Gritter., Bobbit. M & Schwarting A. *Introduction to Chromatography. Journal of Chemical Education*. Diterjemahkan oleh K. Padmawinata. Bandung: Penerbit ITB; 1991.
35. Gandjar, IG RA. *Kimia Farmasi Analisis*. Yogyakarta: Pustaka Pelajar: 2007;

36. Braithwaite A and Smith FJ. *Chromatographic Methods*. London. Kluwer Academic Publishers; 1995. J Geotech Geoenvironmental Eng ASCE. 1995;120(11):259.
37. Dachriyanus. *Analisis Struktur Senyawa Organik Secara Spektroskopi*. Padang: Andalas University Press. 2004. 1–14 p.
38. Suhartati T. *Dasar-Dasar Spektrofotometri Uv-Vis Dan Spektrometri Massa Untuk Penentuan Struktur Senyawa Organik*. Anugrah Utama Raharja; 2013.
39. Silverstein RM, Webster FX KD. *Spectrometric Identification Of Organic Compounds*. State University of New York: United State of Amerika; 2005.
40. Valgas C, De Souza SM, Smânia EFA, Smânia A. *Screening methods to determine antibacterial activity of natural products*. Brazilian J Microbiol. 2007;38:369–80.
41. Jawetz E, Melnick GE dan AC. *Mikrobiologi Kedokteran, Edisi I*. Diterjemahkan oleh Bagian Mikrobiol Fak Kedokt Univ Airlangga. 2001;
42. Kjer J, Debbab A, Aly AH, Proksch P. *Methods for isolation of marine-derived endophytic fungi and their bioactive secondary products*. Nat Protoc. 2010;5(3):479–87.
43. Chen, I-N C-C. *Antioxidant and Antimicrobial Activity of Zingiberaceae Plants in Taiwan*. Plant Food Hum.Nutr; 2008. p. 63. 15-20.
44. Molen K MV, Raja A, Elimat TE ON. *Evaluation of culture media for the production of secondary metabolites in a natural products screening program*. AMB Express. 2013;3(1):71.
45. Huneck S and IY. *Identification of lichen substances*. Verlag Berlin Heideberg New York: Springer; 1996.
46. Wagner HSB. *Plant Drug Analysis, A Thin Layer Chromatography Atlas*. Springer; 1996.
47. Davis W. and ST. *Disc Plate Methods of Microbiological Antibiotic Assay*. Microbiology; 1971. p. 22(4): 659-665.